

ABSTRACT

The invention comprises a method for processing seismic data to generate data related to the location of thin beds in the earth's subsurface. Seismic data windows are defined extending over selected portions of a group of spatially related seismic data traces.

- 5 Frequency spectra of successively selected windows of the seismic data are generated by applying a transform having poles on the unit z -circle, where z is the z -transform, to the data windows; and the frequency spectra are utilized to generate data related to the location of thin beds in the earth's subsurface.